

IN THE CLAIMS:

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1. (Original) A device for treating mucositis in a patient, the device comprising:
a housing positioned adjacent to the patient;
a plurality of optoelectronic devices positioned within the housing, the
optoelectronic devices emitting radiation at a wavelength suitable for the treatment of
mucositis while emitting a minimal amount of heat; and
a cooling system that cools the optoelectronic devices.
2. (Original) The device of claim 1, wherein the plurality of optoelectronic devices
include a plurality of light-emitting diodes.
3. (Original) The device of claim 1, wherein the plurality of optoelectronic devices
are positioned within the housing in an array, and wherein the array includes optoelectronic
devices emitting radiation at a wavelength of at least one of approximately 670 nanometers, 680
nanometers, 730 nanometers, 780 nanometers, 830 nanometers, and 880 nanometers.
4. (Original) The device of claim 1, wherein the plurality of optoelectronic devices
emit radiation at a wavelength of approximately 688 nanometers.
5. (Original) The device of claim 1, wherein the plurality of optoelectronic devices
emit radiation having an energy density of approximately 4 Joules per centimeter.
6. (Original) The device of claim 5, wherein the plurality of optoelectronic devices
emit radiation having a light intensity of approximately 60 milli-Watts per centimeter.
7. (Original) The device of claim 6, wherein the housing is positioned adjacent the
patient and the optoelectronic devices emit radiation toward the patient for approximately 70
seconds in order to treat mucositis.
8. (Original) The device of claim 1, wherein a translucent cover plate is disposed
between the housing and the plurality of optoelectronic devices to electrically isolate the patient
from the plurality of optoelectronic devices.

9. (Original) The device of claim 1, wherein the cooling system includes a plurality of air vents in the housing and an internal heat sink positioned within the housing.

Claims 10-14 (Cancelled). ✓

15. (Original) The device of claim 1, wherein the device is a stationary lamp.

Claims 16-85 (Cancelled). ✓

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